

DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

A-396  
Revision 2  
AERONCA  
C-3  
PC-3  
March 7, 2005

AIRCRAFT SPECIFICATION NO. A-396

Type Certificate Holder      National Aeronca Association  
806 Lockport Road  
P.O. Box 2219  
Terre Haute, IN 47802

Name change from Aeronca to National Aeronca Association March 7, 2005.

I - Model C-3, 2 PO-CLM, PC-3, 2 PCSM (Models 1931 through 1934 - see serial numbers eligible). (See NOTE 1 for differences between models)

|                         |   |
|-------------------------|---|
| Engine                  | Aeronca E-113, A, B, or C   |
| Engine limits           | For all operations, 2400 rpm (36 hp)  |
| Airspeed limits         | Not available   |
| Propeller limits        | Not available (fixed pitch wood)  |
| C.G. range              | Not available   |
| Empty weight C.G. range | Not available   |
| Maximum weight          | Landplane      900 lbs.<br>Seaplane      972 lbs. (with Edo D-990 or D-1070 floats)<br>953 lbs. (with Warner A-1900 floats)<br>Landplane      936 lbs. (serials A-307 and A-400 through A-499, which<br>have single strut type landing gear, with or<br>without reinforcement of rear wing spar.) |
| No. Seats               | 2   |
| Maximum baggage         | 20 lbs. (serials A-307 and A-400 through A-499 eligible with 28 lbs.<br>maximum baggage.)   |
| Fuel capacity           | 8 gals.   |
| Oil capacity            | 3 qts.  |
| Serial Nos. eligible    | A-107 thru A-499 except A-320 and A-321   |
| Required equipment      | Landplane - Items 1, 201, 202, 203.<br>Seaplane - Items 1, 204 and 401.   |

II - Model C-3, 2 PO-CLM, PC-3, 2 PCSM (Model 1935 - See serial numbers eligible) (See NOTE 1 for differences between models.)

|                         |  |
|-------------------------|--|
| Engine                  | Aeronca E-113, A, B, or C.   |
| Engine limits           | For all operations, 2400 rpm (36 hp)   |
| Airspeed limits         | Not available  |
| Propeller limits        | Not available (fixed pitch wood)   |
| C.G. range              | Landplane      (+16.0) to (+19.5)<br>Seaplane      (+18.0) to (+19.75)<br>PC-3 seaplane type converted to landplane (+17.2) to (+19.2) |
| Empty weight C.G. range | Not available  |
| Maximum weight          | Landplane      1006 lbs.<br>Seaplane      1069 lbs.<br>PC-3 seaplane type converted to landplane 990 lbs.                              |
| No. Seats               | 2  |
| Maximum baggage         | 20 lbs.  |
| Fuel capacity           | 8 gals.  |
| Oil capacity            | 3 qts.   |

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|                      |   |
|----------------------|---|
| Serial Nos. eligible | A-320, A-321, A-500 and up mfd. prior to September 30, 1939.<br>Approved expired as of that date. |
| Required equipment   | Landplane - Items 1, 201, 202, 203<br>Seaplane - Items 1, 204, 401.                               |

Specifications Pertinent to all Models

|                     |  |
|---------------------|--|
| Datum               | Wing leading edge  |
| Leveling means      | Not available  |
| Certification basis | Approved Type Certificate 396 (expired) (Aero. Bulletin 7-A)       |
| Export eligibility  | (Will be supplied on request to Office of Aviation Safety - Wash.) |

## Equipment:

A plus (+) or minus (-) sign preceding the weight of an item indicates net weight change when that item is installed.

Propellers and Propeller Accessories

1. Fixed pitch wood propeller

Engine and Engine Accessories - Fuel and Oil System

|  |         |
|--|---------|
| 101. Heater (landplane only)   | 2 lbs.  |
| 102. Seven gallon extra fuel tank beside pilot (replaces passenger)  | 10 lbs. |
| 103. Five gallon extra fuel tank in baggage compt. including wobble pump.<br>(Must be placarded for no passenger with fuel in tank.) | 13 lbs. |

Landing Gear and Floats

|   |                |
|---|----------------|
| 201. Single strut type landing gear with oleo (landplane) (+2.5)  |                |
| 202. Two Goodyear 16x7-3 wheels (3NBA or 3LNBM) and tires, without brakes   | (+2.5)         |
| 203. Tail skid  |                |
| 204. Edo D-1070 floats with water rudder. Item 401 must be installed when floats installed.   |                |
| 205. Two 18x8-3 tires   | +5 lbs. (+2.5) |
| 206. Two 16x7-3 Goodyear wheels (3MBA or 3LMBM) with brakes   | +9 lbs. (+2.5) |
| 207. Tail wheels  |                |
| (a) 8" streamline   | +5 lbs.        |
| (b) 6x2.00 non-steerable (Dwg. 5800)  | +4 lbs.        |
| 208. Mudguards  | 4 lbs.         |
| 209. Oleo tripod landing gear (serials below A-202 must be altered in accordance with Dwg 5527)   |                |
| 210. 15.5" streamline or 3" (Goodyear 3NBA) wheels replacing<br>7.00-4 wheels on oleo tripod landing gear   | No weight chg. |
| 211. 15.5" streamline or 3" (Goodyear 3NBA or 3MBA) wheels with 16x7-3 tires on single strut<br>type landing gear (serials A-307 and A-400 through A-499) |                |
| Without brakes  | +33 lbs.       |
| With brakes   | +42 lbs.       |
| 212. Ski installations  |                |
| (a) Washington Aircraft 1200  |                |
| (b) Federal SA-1, SA-2, SC-1 or SC-2  |                |
| (c) Marston MFS-1200 or MFS-1600  |                |
| (d) Jennings TY-2   |                |
| (e) Richards 1B   |                |
| (f) Graf-Shupe A  |                |

Electrical equipment

|                               |         |
|-------------------------------|---------|
| 301. Position lights          | 10 lbs. |
| [ 302. Deleted March 3, 1949] |         |

Interior equipment

|                                 |         |
|---------------------------------|---------|
| 401. Extra door on pilot's side | 2 lbs.  |
| 402. Winter enclosure           | 12 lbs. |

- NOTE 1. Model PC-3 same as C-3 except the landing gear channel section and attaching members have been removed, extra door on pilot's side and front strut fittings added. The oleo tripod landing gear with 16x7-3 (Goodyear 3NBA) or 7.00-4 wheels will be used to ferry seaplane type over land and when converting seaplane to landplane. Tripod gear 46 lbs. and tail skid 3 lbs. Float installation weight 135 lbs.
- NOTE 2. Serials A-107 through A-250, except A-244 (Model 1932) and serial A-401 (Model 1933) must have a 1 3/4" x 1 3/4" x 1/16" steel gusset plate added on the left lower engine mount joint, at the connection of the side tube with the vertical tube at the engine.
- NOTE 3. Serials A-350 through A-499 must have guards installed in the two pulleys of the aileron control which are in the cockpit.

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